Claims

- 1 1. A plastic control plate of a hydraulic gearbox control device in a motor vehicle,
- 2 comprising
- 3 at least one channel which runs through the plastic control plate and is used for
- 4 carrying a cooling medium, and
- 5 a heat conduction body which is at least partly integrated in the plastic control plate
- 6 and is arranged directly adjacent to the channel.
- 1 2. The plastic control plate as claimed in Claim 1, wherein the heat conduction
- 2 body is a metal plate, in particular an aluminum plate.
- 1 3. The plastic control plate as claimed in Claim 1, wherein the heat conduction
- 2 body is designed in such a way that the cooling medium, in particular a hydraulic fluid,
- 3 flows against it.
- 1 4. The plastic control plate as claimed in Claim 1, wherein a flat area of the heat
- 2 conduction body is designed as a wall area of the channel.
- 1 5. The plastic control plate as claimed in Claim 1, wherein the heat conduction
- 2 body is designed in the form of a U, wherein the inner sides of the U form wall areas
- 3 of the channel.
- 1 6. The plastic control plate as claimed in Claim 1, wherein the upper surface of
- 2 the plastic control plate is flush with the upper surface of the heat conduction body.

- 1 7. An arrangement comprising a plastic control plate and a gearbox control
- 2 electronics system, wherein the plastic control plate comprises:
- at least one channel which runs through the plastic control plate and is used
- 4 for carrying a cooling medium, and
- 5 a heat conduction body which is at least partly integrated in the plastic control
- 6 plate and is arranged directly adjacent to the channel, and wherein
- 7 the gearbox control electronics system, in particular a substrate carrying the electronic
- 8 components of said system, is arranged directly on the upper surface of the heat
- 9 conduction body.
- 1 8. The arrangement as claimed in Claim 7, wherein the gearbox control
- 2 electronics system is electrically contacted via an electrical circuit board, in particular
- 3 a flexible circuit board.
- 1 9. The arrangement as claimed in Claim 7, wherein the gearbox control
- 2 electronics system is electrically contacted via a stamped-grid arrangement, which
- 3 extends partly over the upper surface of the plastic control plate and partly over the
- 4 upper surface of the heat conduction body.
- 1 10. The arrangement as claimed in Claim 7, wherein the heat conduction body is a
- 2 metal plate, in particular an aluminum plate.
- 1 11. The arrangement as claimed in Claim 7, wherein the heat conduction body is
- 2 designed in such a way that the cooling medium, in particular a hydraulic fluid, flows
- 3 against it.
- 1 12. The arrangement as claimed in Claim 7, wherein a flat area of the heat
- 2 conduction body is designed as a wall area of the channel.

- 1 13. The arrangement as claimed in Claim 7, wherein the heat conduction body is
- 2 designed in the form of a U, wherein the inner sides of the U form wall areas of the
- 3 channel.
- 1 14. The arrangement as claimed in Claim 7, wherein the upper surface of the
- 2 plastic control plate is flush with the upper surface of the heat conduction body.

- 1 15. A gearbox control system comprising:
- 2 a plastic control plate
- 3 at least one channel which runs through the plastic control plate for carrying a
- 4 cooling medium,
- 5 a heat conduction body which is at least partly integrated in the plastic control plate
- 6 and is arranged directly adjacent to the channel.
- 7 a gearbox control circuit arranged on a substrate which is arranged directly on the
- 8 upper surface of the heat conduction body.
- 1 16. The gearbox control system as in Claim 15, wherein the gearbox control circuit
- 2 is electrically contacted via an electrical circuit board, in particular a flexible circuit
- 3 board.
- 1 17. The gearbox control system as in Claim 15, wherein the gearbox control
- 2 system is electrically contacted via a stamped-grid arrangement, which extends partly
- 3 over the upper surface of the plastic control plate and partly over the upper surface of
- 4 the heat conduction body.
- 1 18. The gearbox control system as in Claim 15, wherein the heat conduction body
- 2 is a metal plate, in particular an aluminum plate.
- 1 19. The gearbox control system as in Claim 15, wherein the heat conduction body
- 2 is designed in such a way that the cooling medium, in particular a hydraulic fluid,
- 3 flows against it.
- 1 20. The gearbox control system as in Claim 15, wherein a flat area of the heat
- 2 conduction body is designed as a wall area of the channel.
- 1 21. The gearbox control system as in Claim 15, wherein the heat conduction body
- 2 is designed in the form of a U, wherein the inner sides of the U form wall areas of the
- 3 channel.

- 1 22. The gearbox control system as in Claim 15, wherein the upper surface of the
- 2 plastic control plate is flush with the upper surface of the heat conduction body.